

REPORT ON BOILERS.

No. 25678

Received at London Office JUN 14 1937

Date of writing Report 1-6-1937 When handed in at Local Office 192 Port of Rotterdam

No. in Survey held at Schiedam Date, First Survey 13-1-37 Last Survey 5-2-1937

on the motor vessel "NEDERLAND" (Number of Visits 4) Gross 8147 Net 4762

Master Built at Schiedam By whom built Wilton-Fryenoord Yard No. 660 When built '37

Engines made at So. By whom made So Engine No. 1057 When made '37

Boilers made at So. By whom made So Boiler No. 1465 When made '37

Nominal Horse Power Owners Nedelandische Pacific Tanker Ry Port belonging to 's Gravenhage.

MULTITUBULAR BOILERS ^{exhaust gas.} MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Messrs V A Konice Mines Steel & Iron works Corp. (Letter for Record S)

Total Heating Surface of Boilers 110.5 M² Is forced draught fitted Coal or Oil fired exhaust gas.

No. and Description of Boilers One horizontal multitubular boiler. Working Pressure 100 Psi.

Tested by hydraulic pressure to 200 Psi. Date of test 5-2-37. No. of Certificate 989. Can each boiler be worked separately

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 high lifting spring loaded valves.

Area of each set of valves per boiler as fitted 2 x 40 mm. Pressure to which they are adjusted 100 Psi. Are they fitted with easing gear

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No. Lu. 21-6-37.

Smallest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated Yes.

Largest internal dia. of boilers 2150 mm. Length 2086 mm. Shell plates: Material S M Steel Tensile strength 44-50 kg/cm²

Thickness 11 mm. Are the shell plates welded or flanged no Description of riveting: circ. seams end 1 x riv lap. inter.

long. seams double butt 2 x riv. Diameter of rivet holes in circ. seams 20 mm. Pitch of rivets 52 mm. long. seams 20 mm. 75 mm.

Percentage of strength of circ. end seams plate 61.5%. rivets 45%. Percentage of strength of circ. intermediate seam plate rivets

Percentage of strength of longitudinal joint plate 73.3%. rivets 14%. combined 105%. Working pressure of shell by Rules 7.26 kg/cm².

Thickness of butt straps outer 11 mm. inner 11 mm. No. and Description of Furnaces in each Boiler

Material Tensile strength Smallest outside diameter

Length of plain part top bottom Thickness of plates crown bottom Description of longitudinal joint

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

End plates in steam space: Material S M. steel Tensile strength 41-47 kg/cm² Thickness 10 mm. Pitch of stays 345 mm.

How are stays secured nuts & washers. Working pressure by Rules 7.26 kg/cm².

Tube plates: Material front back S M. steel Tensile strength 41-47 kg/cm² Thickness 10 mm.

Mean pitch of stay tubes in nests 201 x 260 mm. Pitch across wide water spaces 134 x 344 mm. Working pressure front wide space 8.1 kg/cm² back 14.75 in nuts.

Girders to combustion chamber tops: Material Tensile strength Depth and thickness of girder

at centre Length as per Rule Distance apart No. and pitch of stays

in each Working pressure by Rules Combustion chamber plates: Material

Tensile strength Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

Working pressure by Rules Front-plate at bottom: Material S M steel Tensile strength 41-47 kg/cm²

Thickness 10 mm. Lower back plate: Material S M steel Tensile strength 41-47 kg/cm² Thickness 18.

Pitch of stays at wide water space Are stays fitted with nuts or riveted over

Working Pressure Main stays: Material S. M steel Tensile strength 44-50 kg/cm²

Diameter At body of stay, or Over threads 44.45 - 38 mm. No. of threads per inch 9 Area supported by each stay

Working pressure by Rules Screw stays: Material Tensile strength

Diameter At turned off part, or Over threads No. of threads per inch Area supported by each stay



Working pressure by Rules Are the stays drilled at the outer ends Margin stays: Diameter At turned off part. or Over threads

No. of threads per inch Area supported by each stay Working pressure by Rules

Tubes: Material steel External diameter Plain 1 3/4" Thickness 2.946 mm No. of threads per inch 9
 Stay 1 3/4" Thickness 6.35 mm

Pitch of tubes 64 mm Working pressure by Rules ample Manhole compensation: Size of opening in shell plate 300 x 500 mm Section of compensating ring 596 x 696 mm No. of rivets and diameter of rivet holes 48 x 20 mm

Outer row rivet pitch at ends 80 mm Depth of flange if manhole flanged 80 mm Steam Dome: Material _____

Tensile strength _____ Thickness of shell _____ Description of longitudinal joint _____

Diameter of rivet holes _____ Pitch of rivets _____ Percentage of strength of joint Plate Rivets

Internal diameter _____ Working pressure by Rules _____ Thickness of crown _____ No. and diameter of stays _____ Inner radius of crown _____ Working pressure by Rules _____

How connected to shell _____ Size of doubling plate under dome _____ Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell _____

Type of Superheater _____ Manufacturers of Tubes Steel castings

Number of elements _____ Material of tubes _____ Internal diameter and thickness of tubes _____

Material of headers _____ Tensile strength _____ Thickness _____ Can the superheater be shut off and the boiler be worked separately _____ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler _____

Area of each safety valve _____ Are the safety valves fitted with easing gear _____ Working pressure as per Rules _____ Pressure to which the safety valves are adjusted _____ Hydraulic test pressure: tubes _____, castings _____ and after assembly in place _____ Are drain cocks or valves fitted to free the superheater from water where necessary _____

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with Yes.

WILTON-FLIJNOORD.
 (N.V. WILTON's Machinefabriek en Scheepswerf
 (WILTON's Engineering & Shipway Co.)
 Maatschappij van Schaep- en Waterbouw)

The foregoing is a correct description, _____

Manufacturer.

Dates of Survey During progress of work in shops - - 13-10-29 / 1 - 5/2-37
 while building During erection on board vessel - - -

Are the approved plans of boiler and superheater forwarded herewith 4-10-36 (If not state date of approval.)

Total No. of visits 4

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been made in accordance with the approved plan, Secretary's letters and Society's Rules. Material tested as required and workmanship good.

Survey Fee £ 94.80 } When applied for, 10.6.37
 Travelling Expenses (if any) : : } When received, 30.6.37 D 30/6

W. Bounce
 Engineer-Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 18 JUN 1937
 Assigned See L. E. Mchey Rpt.

Date of writing Rep
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